IN THE CLAIMS:

A complete listing of the claims is set forth below. Please amend the claims as

follows:

1 - 46 (Canceled)

47. (Currently Amended) A computer graphical user interface system

comprising one or more memory units, the system comprising:

a database operable to store hierarchically organized data associated with a

multi-dimensional hierarchy of data; data and display the multi-dimensional hierarchy of

data to a user; and

a multi-dimensional graphical user interface coupled to the database and capable

of user interaction to provide a multi-dimensional user interactive graph comprising:

a multi-dimensional axes data hierarchy including a top layer hierarchy

associated with a first axis dimension, a top layer hierarchy associated with a second

axis dimension, and a top layer hierarchy associated with a third axis dimension; and

a unique bottom layer hierarchy including a plurality of function values

associated with each of the top layer hierarchies of the multi-dimensional axes data

hierarchy; and

a multi-dimensional value hierarchy associated with each of the function values

of the multi-dimensional axes data hierarchy.

48. (Previously Presented) The computer graphical user interface system

according to Claim 47, wherein the multi-dimensional axes data hierarchy further

comprises:

a plurality of levels of hierarchies associated with the top layer hierarchy, and the

unique bottom layer hierarchy associated with each of the plurality of levels of

hierarchies.

49. (Canceled)

50. (Previously Presented) The computer graphical user interface system

according to Claim 48, wherein the user is capable of filtering at least a portion of the

plurality of levels of hierarchies and in response the filtered levels of hierarchies

disappear from the multi-dimensional user interactive graph and the multi-dimensional

graphical user interface displays the filtered levels of hierarchies in a separate filtered

window.

51. (Previously Presented) The computer graphical user interface system

according to Claim 50, wherein the multi-dimensional graphical user interface allows for

a user navigation of the multi-dimensional axes data hierarchy by drilling into the top

layer hierarchies associated with each of the axis dimensions.

52 (Previously Presented) The computer graphical user interface system

according to Claim 47, wherein the multi-dimensional graphical user interface allows for

each of the function values to be graphed over user selectable aggregations of user

input data.

53 (Previously Presented) The computer graphical user interface system

according to Claim 52 wherein each of the function values are hierarchically arranged

numbers and the user is capable of filtering at least a portion of the multi-dimensional

value hierarchies and in response the filtered value hierarchies disappear from the

multi-dimensional user interactive graph and the multi-dimensional graphical user

interface displays the filtered value hierarchies in a separate filtered legend window.

54. **(Previously Presented)** The computer graphical user interface system according to Claim 53, wherein each of the function values of the multi-dimensional value hierarchy provide for user interaction of complex mathematical combinations of the multi-dimensional axes data hierarchy selected from the group consisting of: summation; average; minimum; and maximum.

55. (Currently Amended) Software for providing a computer graphical user

interface, the software being embodied in a computer-readable storage medium and

when executed operable to:

store hierarchically organized data associated with a multi-dimensional hierarchy

of data in a database and display the multi-dimensional hierarchy of data to a user; and

provide a multi-dimensional graphical user interface coupled to the database and

capable of user interaction to provide a multi-dimensional user interactive graph

comprising:

a multi-dimensional axes data hierarchy including a top layer hierarchy

associated with a first axis dimension, a top layer hierarchy associated with a second

axis dimension, and a top layer hierarchy associated with a third axis dimension; and

a unique bottom layer hierarchy including a plurality of function values

associated with each of the top layer hierarchies of the multi-dimensional axes data

hierarchy; and

a multi-dimensional value hierarchy associated with each of the function values

of the multi-dimensional axes data hierarchy.

56. (Previously Presented) The software of Claim 55, wherein the multi-

dimensional axes data hierarchy further comprises:

a plurality of levels of hierarchies associated with the top layer hierarchy, and the

unique bottom layer hierarchy associated with each of the plurality of levels of

hierarchies.

57. (Canceled)

58. (Previously Presented) The software of Claim 56, wherein the user is

capable of filtering at least a portion of the plurality of levels of hierarchies and in

response the filtered levels of hierarchies disappear from the multi-dimensional user

interactive graph and the multi-dimensional graphical user interface displays the filtered

levels of hierarchies in a separate filtered window.

59. (Previously Presented) The software of Claim 58, wherein the multi-

dimensional graphical user interface allows for a user navigation of the multi-

dimensional axes data hierarchy by drilling into the top layer hierarchies associated with

each of the axis dimensions.

60. (Previously Presented) The software of Claim 55, wherein the multi-

dimensional graphical user interface allows for each of the function values to be

graphed over user selectable aggregations of user input data.

61. (Previously Presented) The software of Claim 60, wherein each of the

function values are hierarchically arranged numbers and the user is capable of filtering

at least a portion of the multi-dimensional value hierarchies and in response the filtered

value hierarchies disappear from the multi-dimensional user interactive graph and the

multi-dimensional graphical user interface displays the filtered value hierarchies in a

separate filtered legend window.

62. (Previously Presented) The software of Claim 61, wherein each of the

function values of the multi-dimensional value hierarchy provide for user interaction of

complex mathematical combinations of the multi-dimensional axes data hierarchy

selected from the group consisting of: summation; average; minimum; and maximum.

63. (Previously Presented) A method for providing a computer graphical

user interface, comprising the steps of:

storing hierarchically organized data associated with a multi-dimensional

hierarchy of data in a database; and

providing a multi-dimensional graphical user interface coupled to the database

and capable of user interaction to provide a multi-dimensional user interactive graph

comprising:

a multi-dimensional axes data hierarchy including a top layer hierarchy

associated with a first axis dimension, a top layer hierarchy associated with a second

axis dimension, and a top layer hierarchy associated with a third axis dimension; and

a unique bottom layer hierarchy including a plurality of function values

associated with each of the top layer hierarchies of the multi-dimensional axes data

hierarchy; and

a multi-dimensional value hierarchy associated with each of the function values

of the multi-dimensional axes data hierarchy.

64. (Previously Presented) The method of Claim 63, wherein the multi-

dimensional axes data hierarchy further comprises:

a plurality of levels of hierarchies associated with the top layer hierarchy and the

unique bottom layer hierarchy associated with each of the plurality of levels of

hierarchies.

65. (Previously Presented) The method of Claim 64, further comprising the

steps of:

filtering at least a portion of the plurality of levels of hierarchies and in response

the filtered levels of hierarchies disappear from the multi-dimensional user interactive

graph and the multi-dimensional graphical user interface displays the filtered levels of

hierarchies in a separate filtered window; and

navigating the multi-dimensional axes data hierarchy by drilling into the top layer

hierarchies associated with each of the axis dimensions.

66. (Previously Presented) The method of Claim 63, further comprising the

steps of:

allowing each of the function values to be graphed over user selectable

aggregations of user input data;

filtering at least a portion of the multi-dimensional value hierarchies and in

response the filtered value hierarchies disappear from the multi-dimensional user

interactive graph and the multi-dimensional graphical user interface displays the filtered

value hierarchies in a separate filtered legend window; and

providing for user interaction of complex mathematical combinations of the multi-

dimensional axes data hierarchy.

67. (Previously Presented) The computer graphical user interface system

according to Claim 47, wherein the multi-dimensional graphical user interface further

comprises:

a first wall graphical user interface grid associated with a mathematical

summarization of the plurality of function values associated with each of the top layer

hierarchies of the multi-dimensional axes data hierarchy.

68. (Previously Presented) The computer graphical user interface system

according to Claim 67, wherein the multi-dimensional graphical user interface further

comprises:

a second wall graphical user interface grid associated with the mathematical

summarization of the plurality of function values associated with each of the top layer

hierarchies of the multi-dimensional axes data hierarchy.

69. (Previously Presented) The software of Claim 55, wherein the multi-

dimensional graphical user interface further comprises:

a first wall graphical user interface grid associated with a mathematical

summarization of the plurality of function values associated with each of the top layer

hierarchies of the multi-dimensional axes data hierarchy.

70. (Previously Presented) The software of Claim 69, wherein the multi-

dimensional graphical user interface further comprises:

a second wall graphical user interface grid associated with the mathematical

summarization of the plurality of function values associated with each of the top layer

hierarchies of the multi-dimensional axes data hierarchy.

71. (Previously Presented) The method of Claim 63, wherein the multi-

dimensional graphical user interface further comprises:

a first wall graphical user interface grid associated with a mathematical

summarization of the plurality of function values associated with each of the top layer

hierarchies of the multi-dimensional axes data hierarchy.

72. **(Previously Presented)** The method of Claim 71, wherein the multi-dimensional graphical user interface further comprises:

a second wall graphical user interface grid associated with the mathematical summarization of the plurality of function values associated with each of the top layer hierarchies of the multi-dimensional axes data hierarchy.